

***LineUp With Math™* Alignment**  
**Performance Standards**  
**Mathematics**

**M5N. Number and Operations**

Students will further develop their understanding of the concept of whole numbers. They will also understand the meanings of multiplication and division of decimal fractions and use decimal fractions and common fractions in computation, as well as in problem solving situations.

**M5N5. Students will understand the meaning of percentage.**

**Performance Standards**

***LineUp With Math™* Activities**

--Use percent relationships to resolve distance, rate, time conflicts in air traffic control.

**M5P. Process Skills**

Students will apply mathematical concepts and skills in the context of authentic problems and will understand concepts rather than merely following a sequence of procedures. Students will use the process standards as a way of acquiring and using content knowledge.

**M5P1. Using the appropriate technology, students will solve problems that arise in mathematics and in other contexts.**

**Performance Standards**

***LineUp With Math™* Activities**

a. Solve non-routine word problems using the strategy of make it simpler as well as all strategies learned in previous grades.

--Apply mathematics to solving distance, rate, and time problems for aircraft conflict scenarios.

b. Solve single and multi-step routine word problems related to all appropriate fifth grade math standards.

--Apply mathematics to solving distance, rate, and time problems for aircraft conflict scenarios.

**M5P2. Students will investigate, develop, and evaluate mathematical arguments.**

**Performance Standards**

***LineUp With Math™* Activities**

--Predict and resolve aircraft conflicts and explain results of mathematical calculations and simulations.

**M5P3. Students will use the language of mathematics to express ideas precisely.**

**Performance Standards**

***LineUp With Math™* Activities**

--Predict and resolve aircraft conflicts and explain results of mathematical calculations and simulations.

**M5P4. Students will understand how mathematical ideas interconnect and build on one another and apply mathematics in other content areas.**

**Performance Standards**

***LineUp With Math™* Activities**

--Apply mathematics to solving distance, rate, and time

	problems for aircraft conflict scenarios.
<b>M5P5. Students will create and use pictures, manipulatives, models, and symbols to organize, record, and communicate mathematical ideas.</b>	
<b>Performance Standards</b>	<b><i>LineUp With Math™</i> Activities</b>  --Use an interactive simulator plus calculation worksheets to model and resolve air traffic control conflicts.